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	The Files	2 October	1959
			50X1
	Trip Report -		50X1
,	1. On 1 Octob	er 1959 Mr. Haas,	50X1
		fices in Washington to discuss	50X1
		off-line storage unit for use with the	50X1
		the meeting was to discuss the incorporation and code matrix into the unit, rather	$\Gamma \cap V A$
	than the use of the		
	was hoped by the wr	iter that this would greatly simplify the	5074
	unit, sin	ce storage in the memory would then be parall	le1 50X1
		an decided not to take issue with the over-all	ι 50X1
		pletion this would only result in confusion	00/(1
	and possible object which uses flip-flo surely meet the termination of the simpler circuitry developed present, investigat off-line keyer having drive circuitry to nected with one of a desire to discuss	ions of interference. The approach p and diode logic circuits exclusively, will ms of the contract even though it does not and more reliable transistor/computer core in recent years. The R&D Laboratory is, at ing two of the best lines of advance toward and its own keyboard and using core transistor the fullest extent. The writer, who is conthese efforts at the Laboratory, had expresse some of the Laboratory circuits with the formed Burroughs engineer, and this was also	i n
			50X1
	considerably. It at the necessity for h	and the writer outlined the means by which could be inpackage. The engineers said plifying the problem this would complicate it present that the main complication would be aving four sense emplifiers instead of one.	50X1 50X1
	be required the add three transistors a tor currents would between	If as many drive flip-flops and diodes would ition of three more sense amplifiers having piece and operating class A with high collecte undesirable. There followed a discussion and the representatives concerning temperatifications for the storage device.	50X1
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4. At	suggestion a few of the R&D	50X
Laboratory circuits were		50X
engineer for comments and	i possible suggestions as to improve-	
ment. The first was a se	onse amplifier still on the drawing	
board which would have a	calculated 5 to 1 advantage in sensing	
	type in use at Burroughs. It employs	
only one translator, two	computer cores, and six small parts, currents. Second, a current/source	
driver was described whis	currents. second, a current/source th produces highly regulated pulses of	
	en produces nighty regulated paises or emplitude; and third, a sequential	
	was described. The latter two circuits	
	tested at the Laboratory. All three	
	sistor/computer core techniques.	
5. Several question	ns were enswered concerning these cir-	
cuits but a lengthy discu	ission did not ensue. The Burroughs	
engineer copied down the	sense amplifier circuit but said that	
his main field was with i	flip-flops and transistors and that his	EOV
experience with cores was		50X 50X
	had abandoned cores to a large extent transistors were here to stay. Later	307
he pointed out in contrad	liction that transistor/core circuits	
were still in the domain	of a more advanced R&D department at	
and an invitat	tion was extended to the writer to meet	50X
with this group of engine	mers for a possible profitable comparison	
of results. The	project engineer did not have an oppor-	50X
tunity to describe intere	sting aspects of the Burroughs storage	
unit before the meeting a	Mjourned for lunch.	
6. At the close of		50X
	the meeting, the representa- to the proposal made earlier in the	00/(
meeting involving incorpo	pration of the keyboard into their unit.	
They said that several ac	sessory circuits could be eliminated by	
access to the code matrix	itself, in addition to the elimination	
of a separate power suppl	y and an extra set of batteries. It was	
doubtful that they will u	se parallel storage.	
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Lab/JHS/rkb (2 October 1959)

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